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### FGAF40N60UF 600 V PT IGBT

#### **General Description**

Fairchild's UF series of IGBTs provide low conduction and switching losses. The UF series is designed for applications such as general inverters and PFC where high speed switching is a required feature.

#### **Features**

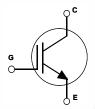
- · High Speed Switching
- Low Saturation Voltage:  $V_{CE(sat)} = 2.3 \text{ V} @ I_C = 20 \text{ A}$
- High Input Impedance

### **Applications**

General Inverter, PFC



GCE



### Absolute Maximum Ratings T<sub>C</sub> = 25°C unless otherwise noted

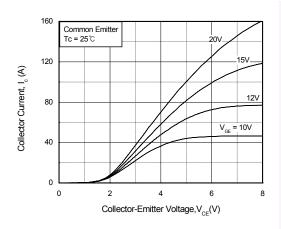
Symbol	Description		Ratings	Unit
V <sub>CES</sub>	Collector-Emitter Voltage		600	V
V <sub>GES</sub>	Gate-Emitter Voltage		± 20	V
	Collector Current	@ T <sub>C</sub> = 25°C	40	Α
I <sub>C</sub>	Collector Current	@ T <sub>C</sub> = 100°C	20	Α
I <sub>CM (1)</sub>	Pulsed Collector Current		160	Α
P <sub>D</sub>	Maximum Power Dissipation	@ T <sub>C</sub> = 25°C	100	W
	Maximum Power Dissipation	@ T <sub>C</sub> = 100°C	40	W
T <sub>J</sub>	Operating Junction Temperature		-55 to +150	°C
T <sub>stg</sub>	Storage Temperature Range		-55 to +150	°C
T <sub>L</sub>	Maximum Lead Temp. for Soldering Purposes, 1/8" from Case for 5 Seconds		300	°C

**Notes:** (1) Repetitive rating: Pulse width limited by max. junction temperature

#### **Thermal Characteristics**

Symbol	Parameter	Тур.	Max.	Unit
$R_{\theta JC}(IGBT)$	Thermal Resistance, Junction-to-Case		1.2	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction-to-Ambient		40	°C/W

Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
Off Cha	racteristics					
BV <sub>CES</sub>	Collector-Emitter Breakdown Voltage	$V_{GE} = 0 \text{ V, I}_{C} = 250 \text{ uA}$	600			V
$\Delta B_{VCES}/$ $\Delta T_J$	Temperature Coefficient of Breakdown Voltage	V <sub>GE</sub> = 0 V, I <sub>C</sub> = 1 mA		0.6		V/°C
I <sub>CES</sub>	Collector Cut-Off Current	V <sub>CE</sub> = V <sub>CES</sub> , V <sub>GE</sub> = 0 V			250	uA
I <sub>GES</sub>	G-E Leakage Current	$V_{GE} = V_{GES}, V_{CE} = 0 V$			± 100	nA
On Chai	racteristics					
V <sub>GE(th)</sub>	G-E Threshold Voltage	$I_C$ = 20 mA, $V_{CE}$ = $V_{GE}$	3.5	5.1	6.5	V
	Collector to Emitter	I <sub>C</sub> = 20 A, V <sub>GE</sub> = 15 V		2.3	3.0	V
V <sub>CE(sat)</sub>	Saturation Voltage	$I_C = 40 \text{ A},  V_{GE} = 15 \text{ V}$		3.1		V
		J O				
	c Characteristics					
C <sub>ies</sub>	Input Capacitance	V <sub>CE</sub> = 30 V, V <sub>GE</sub> = 0 V, f = 1 MHz		1075		pF
C <sub>oes</sub>	Output Capacitance			170		pF
C <sub>res</sub>	Reverse Transfer Capacitance	1 - 1 1011 12		50		pF
Switchi	ng Characteristics			- 1		
t <sub>d(on)</sub>	Turn-On Delay Time					
t <sub>r</sub>	•			15		ns
	Rise Time			15 30		ns ns
t <sub>d(off)</sub>		$V_{CC} = 300 \text{ V, } I_{C} = 20 \text{ A,}$			  130	
t <sub>d(off)</sub>	Rise Time	$R_G = 10 \Omega, V_{GE} = 15 V,$		30		ns
t <sub>d(off)</sub>	Rise Time Turn-Off Delay Time			30 65	 130	ns ns
t <sub>d(off)</sub>	Rise Time Turn-Off Delay Time Fall Time	$R_G = 10 \Omega, V_{GE} = 15 V,$		30 65 35	 130 100	ns ns ns
$t_{d(off)}$ $t_{f}$ $E_{on}$ $E_{off}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss	$R_G = 10 \Omega, V_{GE} = 15 V,$	  	30 65 35 470	 130 100	ns ns ns uJ
$t_{d(off)}$ $t_{f}$ $E_{on}$ $E_{off}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss	$R_G = 10 \Omega, V_{GE} = 15 V,$	  	30 65 35 470 130	130 100 	ns ns ns uJ uJ
$t_{d(off)}$ $t_{f}$ $E_{on}$ $E_{off}$ $E_{ts}$ $t_{d(on)}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss	$R_G = 10 \Omega, V_{GE} = 15 V,$	   	30 65 35 470 130 600	130 100 	ns ns ns uJ uJ
$t_{d(off)}$ $t_{f}$ $E_{on}$ $E_{off}$ $E_{ts}$ $t_{d(on)}$ $t_{r}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time	$R_G = 10 \Omega$ , $V_{GE} = 15 V$ , Inductive Load, $T_C = 25$ °C	   	30 65 35 470 130 600 30	130 100 	ns ns ns uJ uJ uJ
$\begin{array}{l} t_{d(off)} \\ t_{f} \\ E_{on} \\ E_{off} \\ E_{ts} \\ t_{d(on)} \\ t_{r} \\ \end{array}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time	$R_G = 10 \Omega$ , $V_{GE} = 15 V$ , Inductive Load, $T_C = 25^{\circ}C$	    	30 65 35 470 130 600 30 37	 130 100   1000	ns ns ns uJ uJ uJ ns
$t_{d(off)}$ $t_{f}$ $E_{on}$ $E_{off}$	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time	$R_G = 10 \Omega$ , $V_{GE} = 15 V$ , Inductive Load, $T_C = 25$ °C	     	30 65 35 470 130 600 30 37 110	130 100   1000   200	ns ns ns uJ uJ uJ ns ns
td(off) tf Eon Eoff Ets td(on) tr td(off) tr Eoff Ets td(on) tr	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time	$R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ , Inductive Load, $T_C = 25^{\circ}C$ $V_{CC} = 300 \ V$ , $I_C = 20 \ A$ , $R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ ,	      	30 65 35 470 130 600 30 37 110 80	130 100   1000   200	ns ns ns uJ uJ uJ ns ns ns
td(off) tf f Eon Eoff td(on) tr td(on) tr td(off) tf Eon Eoff Eon	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss	$R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ , Inductive Load, $T_C = 25^{\circ}C$ $V_{CC} = 300 \ V$ , $I_C = 20 \ A$ , $R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ ,	      	30 65 35 470 130 600 30 37 110 80 500	 130 100   1000   200 250	ns ns ns uJ uJ ns ns ns ns
td(off) tf f Eon Eoff tts td(off) tf f Ets td(on) tr td(off) tf Eon Eoff Eoff Eoff Eoff Ets	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-On Switching Loss Turn-Off Switching Loss	$R_G$ = 10 $\Omega$ , $V_{GE}$ = 15 V, Inductive Load, $T_C$ = 25°C $V_{CC}$ = 300 V, $I_C$ = 20 A, $R_G$ = 10 $\Omega$ , $V_{GE}$ = 15 V, Inductive Load, $T_C$ = 125°C	       	30 65 35 470 130 600 30 37 110 80 500 310	 130 100   1000  200 250 	ns ns ns uJ uJ ns ns ns us uJ uJ
td(off) tf f Eon Eoff Ets td(on) tf f Eon Eoff Ets Con Eoff Ets Con Eoff Eon Eon Eoff Eon	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Total Gate Charge	$R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ , Inductive Load, $T_C = 25^{\circ}C$ $V_{CC} = 300 \ V$ , $I_C = 20 \ A$ , $R_G = 10 \ \Omega$ , $V_{GE} = 15 \ V$ , Inductive Load, $T_C = 125^{\circ}C$		30 65 35 470 130 600 30 37 110 80 500 310 810	 130 100  1000  200 250  1200	ns ns ns uJ uJ ns ns ns us uJ uJ uJ uJ us
td(off) tf f Eon Eoff td(on) tr td(off) tf Eon Eoff Ets	Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Total Switching Loss Turn-On Delay Time Rise Time Turn-Off Delay Time Fall Time Turn-On Switching Loss Turn-Off Switching Loss Turn-Off Switching Loss Total Switching Loss	$R_G$ = 10 $\Omega$ , $V_{GE}$ = 15 V, Inductive Load, $T_C$ = 25°C $V_{CC}$ = 300 V, $I_C$ = 20 A, $R_G$ = 10 $\Omega$ , $V_{GE}$ = 15 V, Inductive Load, $T_C$ = 125°C		30 65 35 470 130 600 30 37 110 80 500 310 810	 130 100  1000  200 250  1200 150	ns ns ns uJ uJ ns ns ns us ns ns ns ns ns ns ns ns



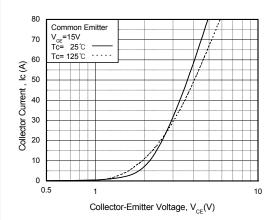
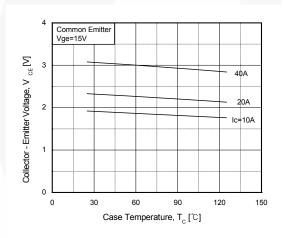


Fig 1. Typical Output Characteristics

Fig 2. Typical Saturation Voltage Characteristics



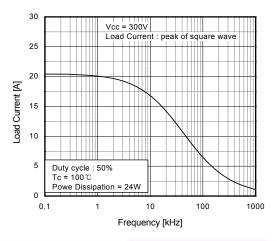
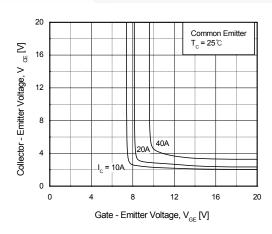


Fig 3. Saturation Voltage vs.

Case Temperature at Variant Current Level

Fig 4. Load Current vs. Frequency



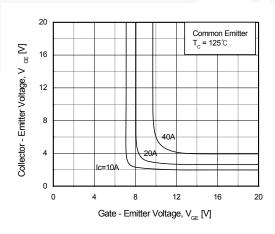
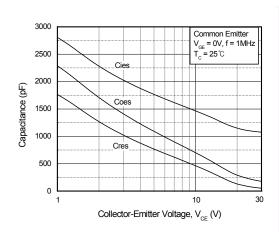


Fig 5. Saturation Voltage vs.  $V_{\rm GE}$ 

Fig 6. Saturation Voltage vs. V<sub>GE</sub>



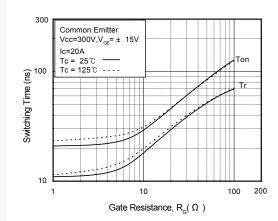
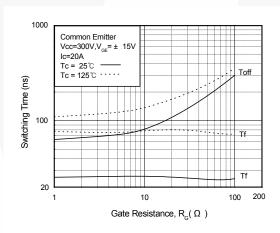


Fig 7. Capacitance Characteristics

Fig 8. Turn-On Characteristics vs.
Gate Resistance



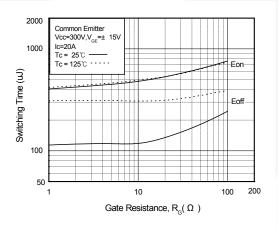
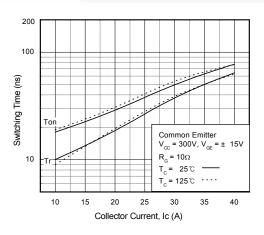


Fig 9. Turn-Off Characteristics vs.
Gate Resistance

Fig 10. Switching Loss vs. Gate Resistance



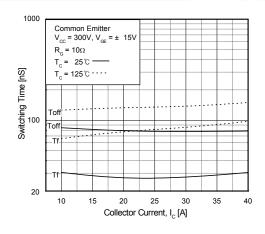
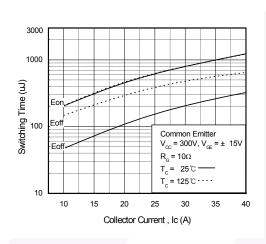


Fig 11. Turn-On Characteristics vs. Collector Current

Fig 12. Turn-Off Characteristics vs. Collector Current



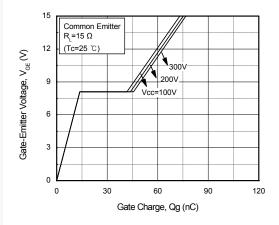
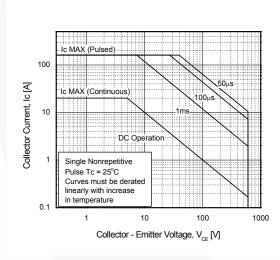


Fig 13. Switching Loss vs. Collector Current

Fig 14. Gate Charge Characteristics



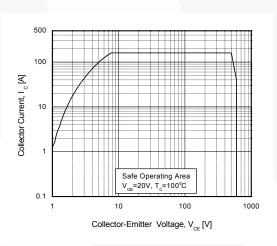


Fig 15. SOA Characteristics

Fig 16. Turn-Off SOA Characteristics

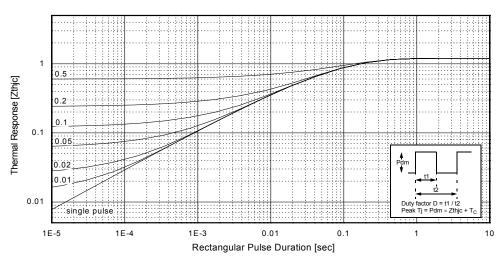


Fig 17. Transient Thermal Impedance of IGBT

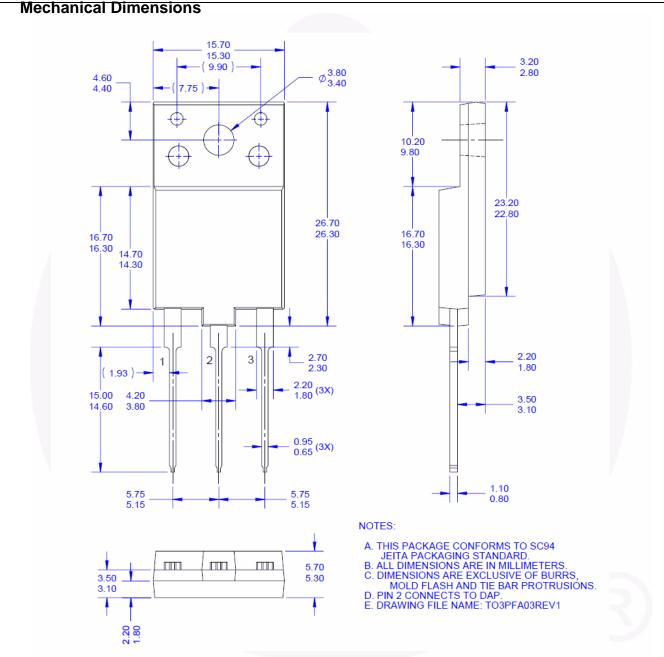


Figure 18. TO3PF,MOLDED,3LD,FULLPACK (AG)

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- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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